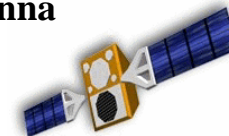




"Not Yet Approved" RHCP RX-Inmarsat/GPS & LHCP Thuraya/TX-Globalstar Antenna

P/N: 1.5G1516RL-P-XSS-4

(3.6"x 1.5"x 0.6"), Front Mount (Other Configurations are Available)



ISO 9001:2008/FAA Approved Facility Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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Thuraya/Tx-Globalstar: SMA FEMALE with 20in Cable, (OPTION: SMA, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

GPS/Rx-Inmarsat: SMA FEMALE with 20in Cable, (OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

(+2.5 to +30) Volts DC (Active)

Optional Mounting: 8X 2-56 Tap X 0.118 Deep

SPECIFICATIONS

ZONE	REV		REVISIONS		DATE	APPROVED
	NO	DATE	NO	DESCRIPTION		

ELECTRICAL:

	Thuraya & Tx-Globalstar	Rx-Inmarsat/GPS
FREQUENCY:	(1610.0 - 1626.5) MHz	(1525 - 1580) MHz
RADIATION PATTERN:	HEMISPHERICAL	HEMISPHERICAL
POLARIZATION:	LHCP	RHCP
VSWR:	< 1.5:1	< 1.5:1
GAIN (dB):	4 ft G.P. Free Space	F.S. 4 ft G.P.
@ 90° (Zenith):	+4.9	+5.0
@ 10° Elevation:	-1.0	-2.5
@ 20° Elevation:	+1.5	-0.5
@ 30° Elevation:	+2.4	+1.0
@ 60° to 90° Elevation:	>+3.3	>+2.7
	> 3.6	> 2.1
BEAM WIDTH (3dB):	129 ° 98 °-106 °	103 ° 146 °
AXIAL RATIO @ Zenith:	2 dB	2 dB
POWER HANDLING:	30 W	1 Watt
LIGHTNING PROTECTION:	DC GROUNDING	DC GROUNDING
LNA OPTION		
LNA GAIN:	N/A	(33.0+/-1.0) dB, 20dB (-A2- Option)
LNA P 1dB Out:	N/A	+16 dBm
LNA NOISE FIGURE:	N/A	2.8 dB (Filter loss is Included)
VOLTAGE/CURRENT:	N/A	(+2.8 TO +28) Volts DC / (30 TO 50) mA

MECHANICAL:

SIZE: WIDTH: 1.56 in. [39.7 mm], LENGTH: 3.64 in [92.5 mm], HEIGHT: 0.63 in. [16.0 mm]

WEIGHT: 3.5 oz. (99 g)

FINISH: SKYDROLRESISTANTPOLYURETHANEENAMELAND NICKEL PLATING

MATERIAL: 6061-T6ALUMINUMALLOYBASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, ANDSKYDROLRESISTANCE, FIRE RETARDANT

CONNECTOR: Thuraya/Tx-GlobalstarSMA FEMALE(J1, Red); GPS/Rx-InmarsatSMA FEMALE(J2, Blue). Availablein Other Con. Types

MOUNTING: FLAT FRONT(2 x 6-32 SCREWS),BACK(4 x 2-56 SCREWS), OR FLUSHMAGNET

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLYSEALED

FEDERAL & MILITARY SPECIFICATIONS

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	REV NO
4					5
					3
1					1

CONFIGURATION:	FREQ. BAND 1/2 (MHz):	BAND 1/2 Polarizations:	GPS LNA:	CABLE LENGTH	GPS/IRIDIUM CONNECTOR:
1: 2" SQ. (FLAT)	1516: Rx-Inmarsat/GPS	RL: RHCP/LHCP	A: WITH 33dB LNA	X: NO CABLE	S: SMA P- PINS
1.9: 1.9" SQ. (FLAT)	Thuraya/Tx-Globalstar	LR: LHCP/RHCP	P: WITHOUT LNA	MN: Flush Mag. Mount	N: MCX; MM: MMCX
2: 2.6" DIA. (FLAT)	1216: Rx-Inmarsat/L1/L2 PS & Thuraya/Tx-Globalstar	RR: RHCP/RHCP	A1: WITH 12dB LNA	#: Cable Length (in)	N: N; NB: N-Bulkhead
3: 3.5" DIA. (FLAT)		LL: LHCP/LHCP	A2: WITH 20dB LNA	R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead
4: MINI ARINC (FLAT)					
53: (HELIX ROD)	XXXX: Any other 2 bands				
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ARE IN DEGREES

TOLERANCE DIM PER ANSI Y14.5

REMOVE ALL SURF. BREAK EXTERNAL EDGES .005 TO .015 RADIUS & .005 TO .010 CHAMFER SURF. PER MIL-STD-883C DIA'S ON A COMMON C 27.006

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

Low Profile Ruggedized Thuraya/Tx-Globalstar & Rx-Inmarsat/GPS Antenna

1.5G1516RL-X-XSS-4

SCALE 1/1

SHEET 1 OF 1